

INTEGRATED ULTRACAPACITOR AS ENERGY SOURCE

ABSTRACT OF THE DISCLOSURE

An ultracapacitor formed on a semiconductor substrate includes a plurality conductive layers with intervening dielectric layers. These layers form a plurality of capacitors which may be connected in parallel to store a charge for powering an electronic circuit or for performing a variety of integrated circuit applications. A plurality of ultracapacitors of this type may be connected in series or may be designed in stacked configuration for attaining a specific charge distribution profile.